

Title (en)

Vehicle steering device, failure determination method for vehicle steering device, and control method for steering motor

Title (de)

Fahrzeuglenkungs Vorrichtung, Fehlerbestimmungsverfahren für Fahrzeuglenkungs Vorrichtung und Steuerverfahren für einen Lenkmotor

Title (fr)

Dispositif de direction de véhicule, procédé de détermination de défaillance pour dispositif de direction de véhicule et procédé de commande pour un moteur de direction

Publication

**EP 2913247 A2 20150902 (EN)**

Application

**EP 15156341 A 20150224**

Priority

JP 2014036630 A 20140227

Abstract (en)

A vehicle steering device includes: a steering mechanism 30 that steers steered wheels 4 by driving of a steering motor 34 according to operation of an operation unit; a motor angle sensor 36 that detects a rotation angle of the steering motor 34 as an electrical angle; a steered angle sensor 42 that detects a steered angle of the steered wheels 4; a storage unit in which correspondence between the electrical angle and the steered angle that are detected is stored in advance; and a failure determination unit that determines whether there is a failure or not by comparing the relation between the detected electrical angle and the detected steered angle with the correspondence between the electrical angle and the steered angle that is stored in the storage unit.

IPC 8 full level

**B62D 5/04** (2006.01); **B62D 15/02** (2006.01)

CPC (source: CN EP US)

**B62D 5/003** (2013.01 - EP US); **B62D 5/0484** (2013.01 - EP US); **B62D 5/049** (2013.01 - CN EP US)

Citation (applicant)

- JP H10197238 A 19980731 - KOYO SEIKO CO
- JP 2013112279 A 20130610 - JTEKT CORP

Citation (examination)

EP 0400684 A2 19901205 - MITSUBISHI ELECTRIC CORP [JP]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2913247 A2 20150902**; **EP 2913247 A3 20160713**; CN 104875786 A 20150902; JP 2015160504 A 20150907; US 2015239492 A1 20150827; US 9623900 B2 20170418

DOCDB simple family (application)

**EP 15156341 A 20150224**; CN 201510089226 A 20150227; JP 2014036630 A 20140227; US 201514626091 A 20150219